

Application/Control Number: 10/089,614

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CLMPTO

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1. A method for the production of a wound superconducting tape with a final radius of curvature comprising the steps of:

- i. Winding the superconducting tape with a radius of curvature dimensioned in such a way that the curvature is adapted to a specific application having said final radius of curvature;
- ii. sintering said superconducting tape in an oven; and
- iii. providing said wounded tape with its final radius of curvature,

wherein said radius of curvature wound in said step of winding the superconducting tape includes a radius of curvature being smaller than the final radius of curvature.

2. (Amended) A method according to claim 1, [characterised]characterized in that the superconducting tape is wound in a radius of curvature range including a radius of curvature being smaller than the final radius of curvature as well as a radius of curvature exceeding said final radius of curvature.

3. (Amended) A method according to [any of the claims 1 and 2]claim 1 or 2, [characterised]characterized in that the tape is wound with a radius where the tape brittles if it is subjected to a strain after the sintering.

4. (Amended) A method according to [any one of the claims 1 to 3]claim 1, [characterised]characterized in that after the sintering, the superconducting tape is wound on a holder without being subjected to a stain beyond the range resulting in a critical strain of 1%, preferably 0.40%.

5. (Amended) A method according to claim 4, [characterised]characterized in that said holder being a coil holder.

6. (Amended) A method according to [any one of the claims 1 to 5]claim 1, [characterised]characterized in that prior to the sintering, the superconducting tape is provided with one or several bending radii, whereby the tape does not brittle when it after sintering is provided with its final radius of curvature.